

Subject index

- Abduction, (35) 311
Adverse drug reaction causality assessment, (35) 301
Analysis, (35) 11
Artificial heart, (35) 17
Artificial intelligence, (35) 239
Atherosclerosis, (35) 1
BASIC program, (35) 151
Bayesian system, (35) 251
Bayesian theory, (35) 177
Belief network, (35) 177
Bioequivalence, (35) 151
Cancer: CANEST, (35) 193
Censored survival analysis, (35) 203
Cerebral palsy speech recognition, (35) 125
Class separability, (35) 157
CLIPPER, (35) 193
Cluster analysis, (35) 157
Cohort estimation, (35) 193
Compartmental system, (35) 71
Computer-assisted diagnosis, (35) 239
Computer-assisted medical diagnosis, (35) 301
Computer image analysis, (35) 1
Computerized management, (35) 267
COMSEQ, (35) 35
Concordant diagnostic tests, (35) 171
Confirmatory analysis, (35) 59
Connectionism, (35) 279
Data analysis, (35) 35
Database, (35) 11; (35) 213
Database access, (35) 293
Dermatology, (35) 193
Diabetes, (35) 71
Diagnosis, (35) 11; (35) 171; (35) 311
Diagnostic algorithm, (35) 239
Dialogue system, (35) 321
Discordant diagnostic tests, (35) 171
Drug, (35) 213
Drug toxicity, (35) 301
DTL, (35) 93
Dysarthric speech recognition, (35) 125
ECG classification, (35) 93
Electrophysiology, (35) 111
Electrotonic interaction, (35) 111
Evaluation of Knowledge-Based Systems, (35) 261
Experimental design, (35) 59
Femoral artery, (35) 1
Filing system, (35) 213
Finite state machine, (35) 17
Full-to-empty mode control, (35) 17
Gestational diabetes mellitus, (35) 141
Graphical interface, (35) 177
Hazard, (35) 203
Heart, (35) 111
Hemodialysis, (35) 25
Hidden Markov model, (35) 125
Human-computer interface, (35) 59
Image correlation, (35) 53
Image-processing, (35) 219
Influence diagram, (35) 177
Insulin therapy, (35) 71
Intensive care, (35) 267
Intensive care unit, (35) 157
Interactive computer program, (35) 43
Interpreter, (35) 93
Knowledge-based system, (35) 239; (35) 251; (35) 267; (35) 311; (35) 321
Linear acceleration, (35) 219
Mathematical model, (35) 111
Medical decision making, (35) 141
Medical decision science, (35) 279
Medical diagnosis, (35) 239
Microprocessor, (35) 17
Modeling, (35) 279
Monte Carlo method, (35) 25
Myocardial tissue, (35) 111
Natural language generation, (35) 321
Neurology, (35) 11
Nonparametric confidence interval, (35) 151
Ocular counterrolling, (35) 219
Ocular torsion, (35) 219
Oculomotor, (35) 219
Otolith, (35) 219
PANOS, (35) 59
Pathognomony, (35) 311
Peptide identification, (35) 35
Postoperative cardiac patient, (35) 157
Precision, (35) 25
Pregnancy, (35) 213
Programming-language design, (35) 93
Proportional hazards, (35) 203
Protein sequence analysis, (35) 35
Quick Medical Reference (QMR), (35) 301
Randomization tests, (35) 43
Respiratory therapy, (35) 267
ROC curve, (35) 141
Selected image points, (35) 53

- Sensitivity, (35) 171
SERUM, (35) 321
Simulation, (35) 71; (35) 203; (35) 279
Specificity, (35) 171
Speech recognition, (35) 125
Statistical analysis, (35) 279
Statistical power, (35) 203
Statistical system, (35) 251
Statistics, (35) 43
Stochastic simulation, (35) 177
Survival analysis, (35) 203
Symptom interpretation, (35) 239
- Threshold, (35) 141
Transformation operation, (35) 53
Unified medical language system, (35) 293
Urea kinetic modeling, (35) 25
User interface, (35) 293
User modeling, (35) 321
Ventilator management, (35) 267
Vestibular, (35) 219
Visual evoked potential, (35) 11
WEANPRO, (35) 267
Well-classified percentage, (35) 141

Author index

- Akazawa, K., Nakamura, T., Moriguchi, S., Shimada, M. and Nose, Y.
Simulation program for estimating statistical power of Cox's proportional hazards model assuming no specific distribution for the survival time (35) 203
- Avanzolini, G., Barbini, P., Gnudi, G. and Grossi, A.
Cluster analysis of clinical data measured in the surgical intensive care unit (35) 157
- Baggenstoss, B., see Carson, S.D. (35) 35
- Balocco, R., see Bonati, M. (35) 213
- Barbini, P., see Avanzolini, G. (35) 157
- Barnett, G.O., see Cimino, C. (35) 293
- Barnett, G.O., see Feldman, M.J. (35) 261
- Bellazzi, R., Quaglini, S., Berzuini, C. and Stefanelli, M.
GAMEES: a probabilistic environment for expert systems (35) 177
- Bengtsson, E., see Berglund, I. (35) 1
- Berglund, I., Bengtsson, E., Eriksson, U., Höglund, N. and Nilsson, S.
Image operations in quantification of atherosclerosis from digitized angiograms (35) 1
- Berzuini, C., see Bellazzi, R. (35) 177
- Blewett, D.R., see Cimino, C. (35) 293
- Bonati, M., Balocco, R., Colombo, A. and Pistotti, V.
A computer filing system for drug use in a pregnancy consultation service (35) 213
- Boroujerdi, M.A., see Leaning, M.S. (35) 71
- Borowiak, D. and Reed, J.F. III
Utility of combining two diagnostic tests (35) 171
- Bosson, J.L., see Vermont, J. (35) 141
- Brodheim, E., see Sirelson, V. (35) 279
- Buur, T.
Precision of hemodialysis urea kinetic modeling: empirical data and Monte Carlo simulation (35) 25
- Carson, S.D. and Baggenstoss, B.
Identification of peptides within a known protein sequence using COMSEQ analysis of data containing multiple sequences (35) 35
- Chronister, R.J., see Mitchell-DePew, J. (35) 11
- Cimino, C., Barnett, G.O., Hassan, L., Blewett, D.R. and Piggins, J.L.
Interactive Query Workstation: Standardizing access to computer-based medical resources (35) 293
- Colombo, A., see Bonati, M. (35) 213
- Curthoys, I.S., see Moore, S.T. (35) 219
- Deller, Jr., J.R., Hsu, D. and Ferrier, L.J.
On the use of hidden Markov modelling for recognition of dysarthric speech (35) 125
- De Mey, C., see Meineke, I. (35) 151
- Demongeot, J., see Vermont, J. (35) 141
- Erikson, U., see Berglund, I. (35) 1
- Feldman, M.J. and Barnett, G.O.
An approach to evaluating the accuracy of DXplain (35) 261
- Ferrier, L.J., see Deller, Jr., J.R. (35) 125
- Fischer, O. and Smith, J.W.
Contextual pathognomony: a computationally useful extension of pathognomony (35) 311
- François, P., see Vermont, J. (35) 141
- Gnudi, G., see Avanzolini, G. (35) 157
- Grossi, A., see Avanzolini, G. (35) 157
- Haimowitz, I.J.
Modeling all dialogue system participants to generate empathetic responses (35) 321
- Hassan, L., see Cimino, C. (35) 293
- Höglund, N., see Berglund, I. (35) 1
- Hooton, J.W.L.
Randomization tests: statistics for experimenters (35) 43
- Hsu, D., see Deller, Jr., J.R. (35) 125
- Ingeholm, Jr., J.E., see Mitchell-DePew, J. (35) 11
- Jiang, K. and Wang, H.
A full-to-empty mode controller for the pneumatically-driven blood pump (35) 17
- Kamp, D.M., see Kors, J.A. (35) 93
- Kingsland III, L.C.
Finalists' Papers, 1990 from the Student Paper Competition in Medical Informatics at the Fourteenth Annual Symposium on Computer Applications in Medical Care (SCAMC) (35) 233
- Kors, J.A., Kamp, D.M., Snoek Henkemans, D.P. and Van Bemmel, J.H.
DTL: a language to assist cardiologists in improving classification algorithms (35) 93
- Kuhnt, U., see Siklós, L. (35) 53

- Leaning, M.S. and Boroujerdi, M.A.
A system for compartmental modelling and simulation (35) 71
- Lehmann, H.P. and Shortliffe, E.H.
THOMAS: building Bayesian statistical expert systems to aid in clinical decision making (35) 251
- Mabry, M.E. and Miller, R.A.
Distinguishing drug toxicity syndromes from medical diseases: a QMR computer-based approach (35) 301
- Malik, M.
Mathematical model of electrotonic interactions during excitation and repolarisation of myocardial tissue (35) 111
- McCoy, S.G., see Moore, S.T. (35) 219
- Meineke, I. and De Mey, C.
The assessment of bioequivalence in a two-period cross-over design: Development of a simple BASIC program (35) 151
- Micheli-Tzanakou, E., see Mitchell-DePew, J. (35) 11
- Miller, R.A., see Mabry, M.E. (35) 301
- Mitchell-DePew, J., Ingeholm, Jr., J.E., Chronister, R.J., Pavlopoulos, S. and Micheli-Tzanakou, E.
A PC data-base with analytical applications for evoked potentials (35) 11
- Moore, S.T., Curthoys, I.S. and McCoy, S.G.
VTM - an image-processing system for measuring ocular torsion (35) 219
- Moriguchi, S., see Akazawa, K. (35) 203
- Nakamura, T., see Akazawa, K. (35) 203
- Nilsson, S., see Berglund, I. (35) 1
- Nose, Y., see Akazawa, K. (35) 203
- Pavlopoulos, S., see Mitchell-DePew, J. (35) 11
- Piggins, J.L., see Cimino, C. (35) 293
- Pistotti, V., see Bonati, M. (35) 213
- Quaglini, S., see Bellazzi, R. (35) 177
- Reed, J.F. III, see Borowiak, D. (35) 171
- Robert, C., see Vermont, J. (35) 141
- Rueff, A., see Vermont, J. (35) 141
- Shimada, M., see Akazawa, K. (35) 203
- Shortliffe, E.H., see Lehmann, H.P. (35) 251
- Sigurgeirsson, B.
CANEST: a microcomputer program for estimating cancer in a cohort (35) 193
- Siklós, L. and Kuhnt, U.
Algorithm for point-to-point correlation of geometrically nearly similar microscopic objects (35) 53
- Sirelson, V. and Brodheim, E.
A computer planning model for blood platelet production and distribution (35) 279
- Smith, J.W., see Fischer, O. (35) 311
- Snoeck Henkemans, D.P., see Kors, J.A. (35) 93
- Stefanelli, M., see Bellazzi, R. (35) 177
- Tong, D.A.
Weaning patients from mechanical ventilation. A knowledge-based system approach (35) 267
- Van Bemmel, J.H., see Kors, J.A. (35) 93
- Vermont, J., Bosson, J.L., François, P., Robert, C., Rueff, A. and Demongeot, J.
Strategies for graphical threshold determination (35) 141
- Wang, H., see Jiang, K. (35) 17
- Wittkowski, K.M.
A structured visual language for a knowledge-based front-end to statistical analysis systems in biomedical research (35) 59
- Wu, T.D.
A problem decomposition method for efficient diagnosis and interpretation of multiple disorders (35) 239

